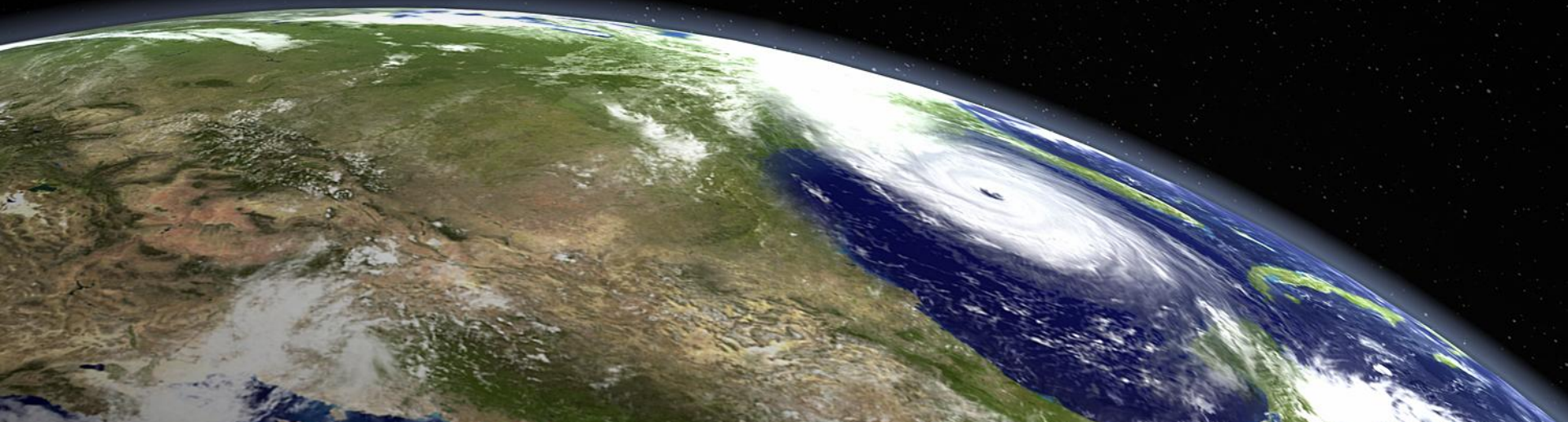


ARPA-E NATURAL GAS WORKSHOP

APRIL 22-24, 2013

ROCKY MOUNTAIN INNOSPHERE

FORT COLLINS, CO



The Connected Sensor Networks

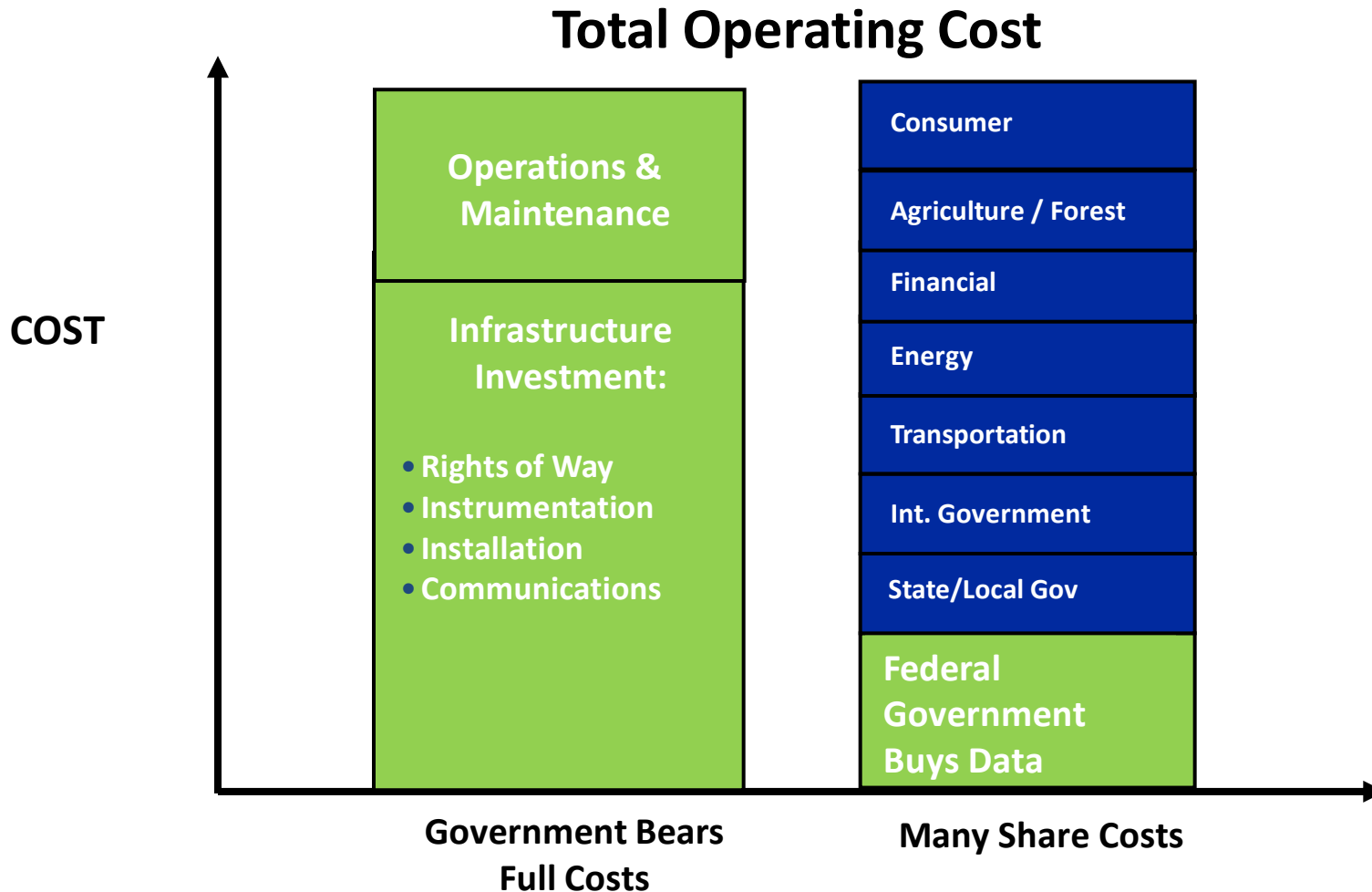


Innovation & Public/Private Partnerships Across Entire Value Chain



Public-Private Partnership Model

Shares Costs Across Many Users



Federal Partnership Contract/Activities

National Mesonet Program

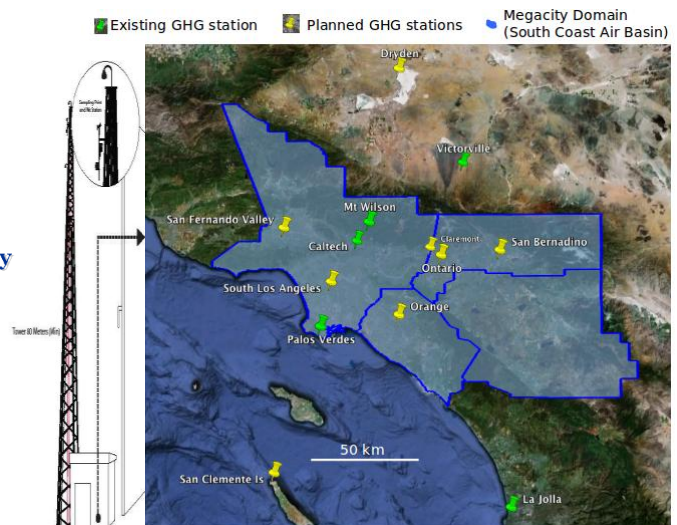
- NOAA/National Weather Service

Total Lightning

- USAF/AFWA
 - Global mission support
- NOAA/NWS/OAR
 - Nowcasting / NWP data assimilation
- MIT/Lincoln Laboratory
 - FAA Aviation Weather Research

Greenhouse Gases

- INFLUX project
- LA Megacities program
- “Measurement Science for Urban Domes”

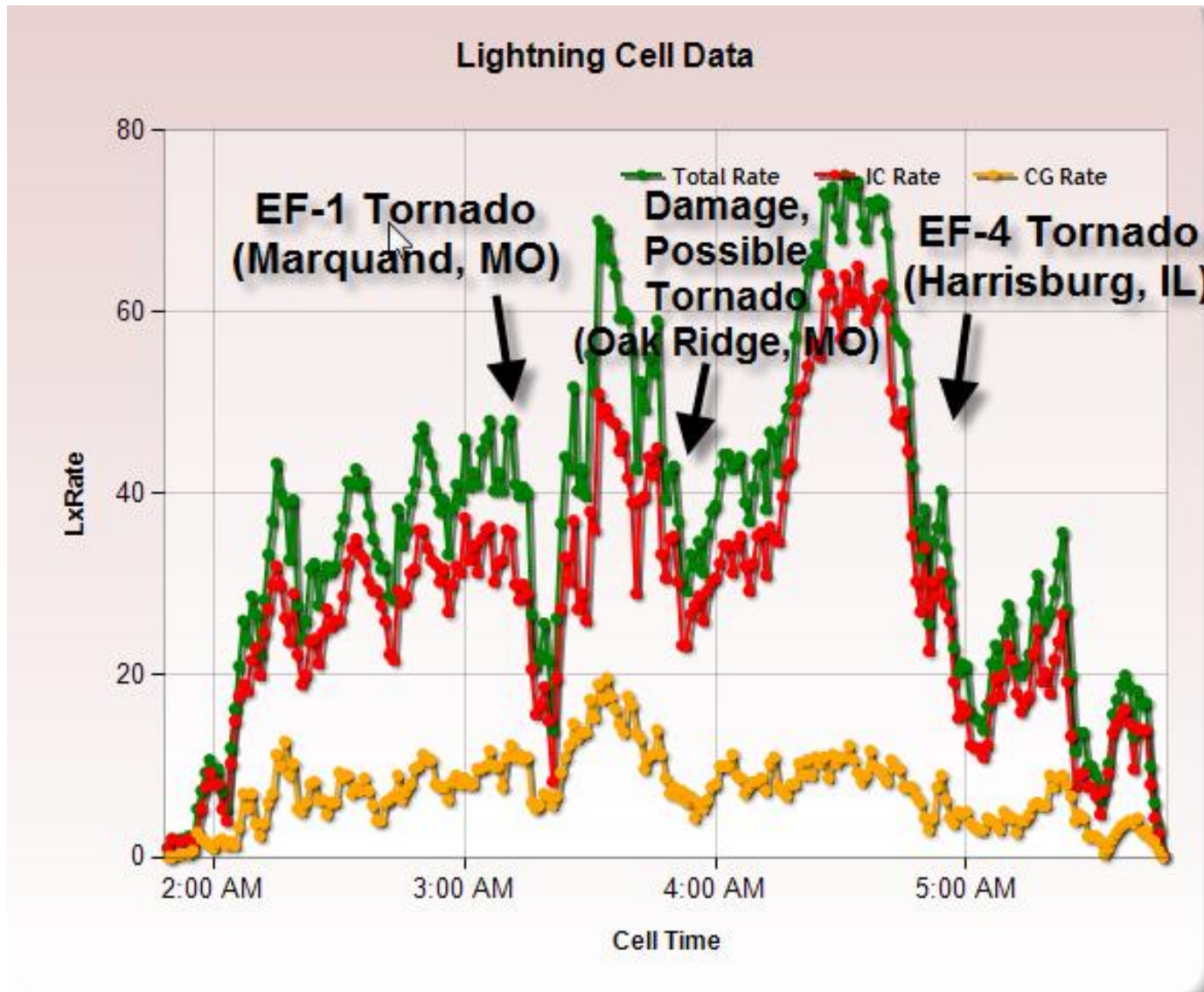


Network of Networks

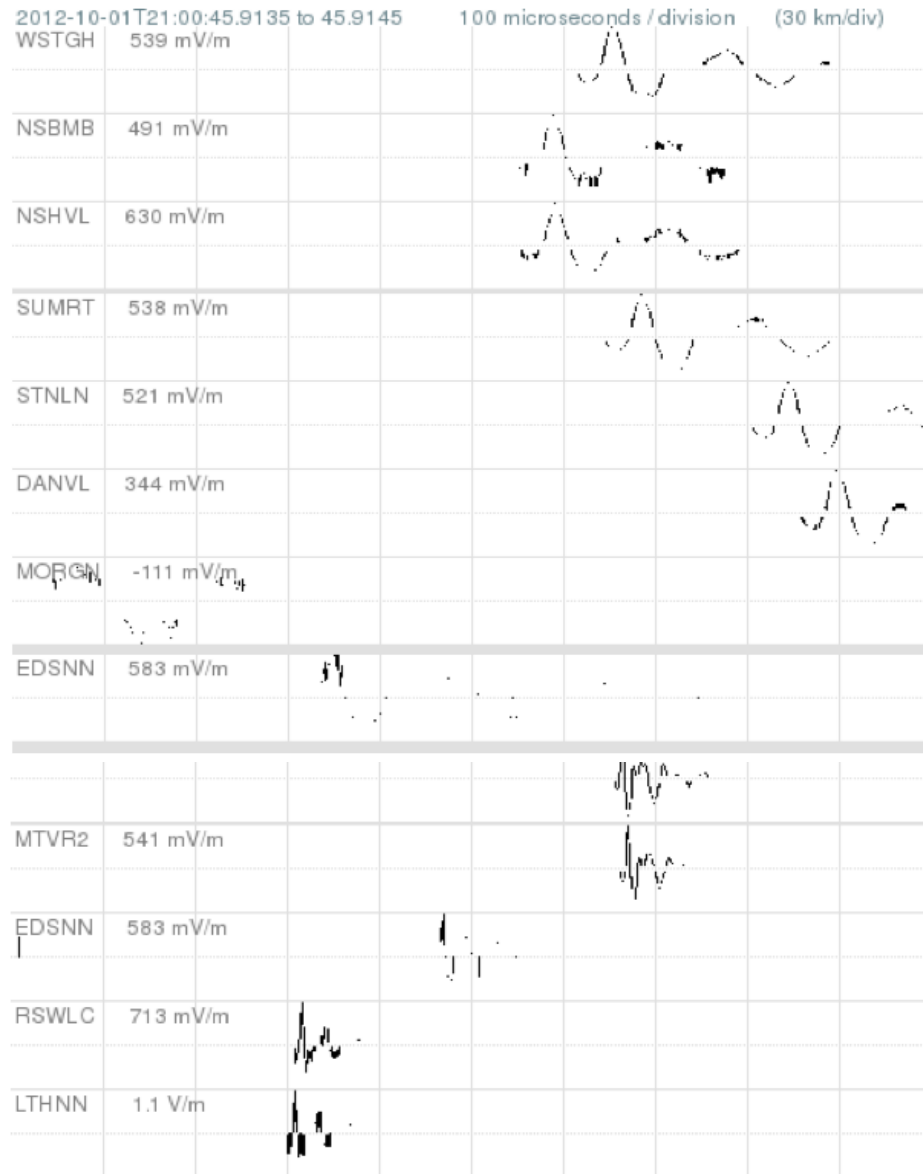


Weather & Climate
Operate ~10,000 Stations Globally

Total Lightning a Leading Indicator of Svr Wx

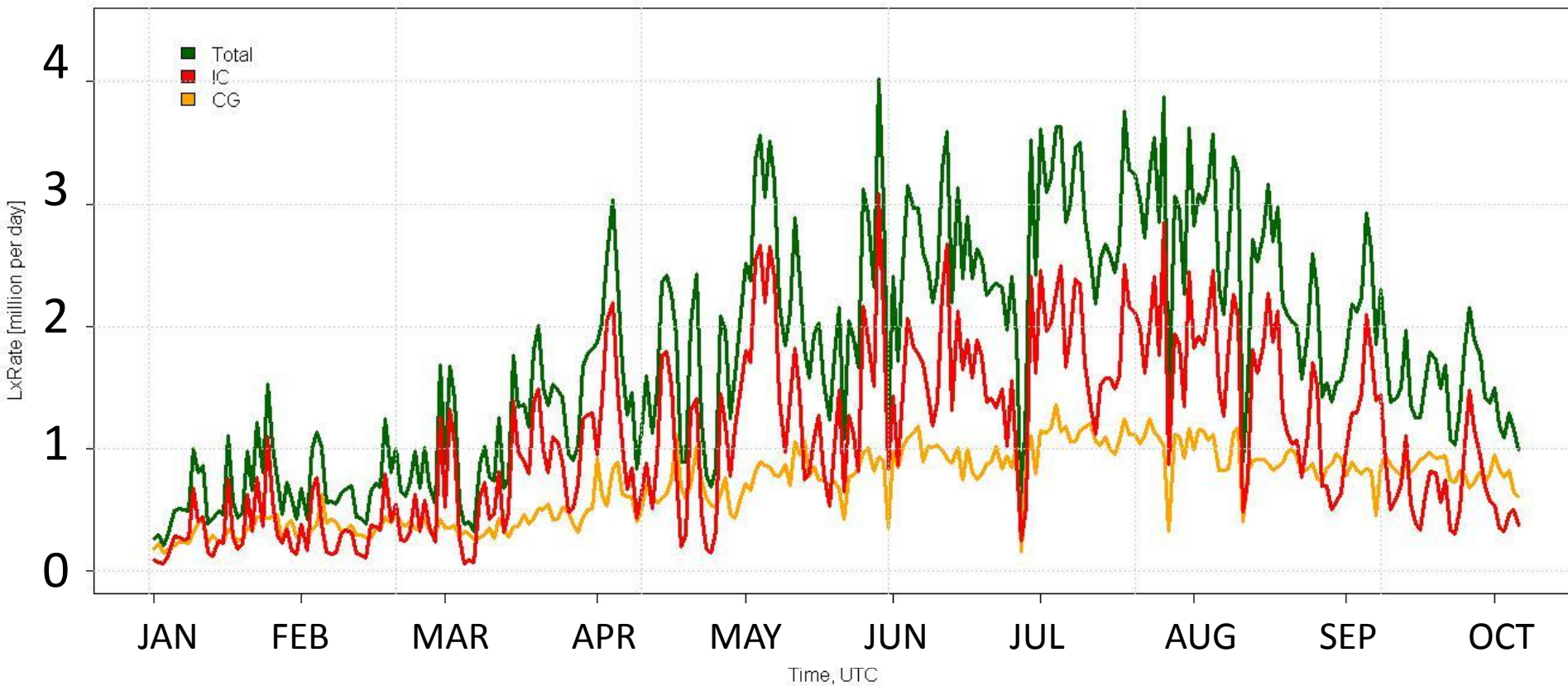


Big Data



Global Lightning

Millions of Strokes per Day



Earth Networks GHG Towers

SNDGS

GHG01

- Installed
- Planned

Sampling System

SCRIPPS INSTITUTION OF
OCEANOGRAPHY
GLOBAL DISCOVERIES FOR TOMORROW'S WORLD

Front View



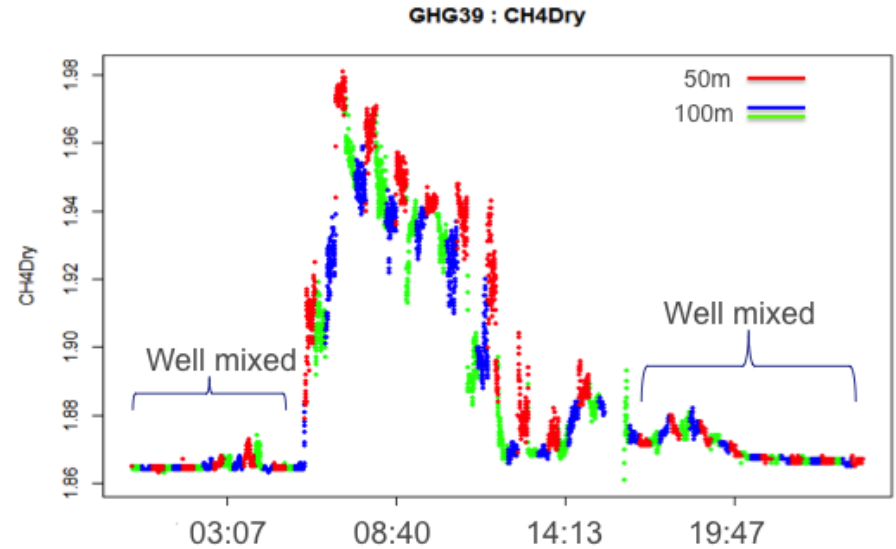
Side View



“Calibration Box”



Typical Tower: Lewisburg, Pennsylvania



Our Interests

- Low cost, low maintenance sensors that can be broadly deployed (scalable)
- Highly synergistic with Earth Networks' core capabilities and business strategy
 - Public/Private/Academic Partners
 - Shared Cost Models
- Eager to work with the broader community to make this a reality